Claims

[1] A condensing apparatus of a dish washer for condensing vapor inside a dish washer tub, the condensing apparatus comprising:
a blower for suctioning the vapor from inside the tub; and
an air duct connected to the blower and forming a vapor passage for circulating the vapor and generating condensed water; wherein the vapor passage includes a ridge formed thereon for stopping the condensed water.

[2] The condensing apparatus according to claim 1, wherein the vapor passage forms a meander line.

[3] The condensing apparatus according to claim 1, wherein the vapor passage further includes a straight portion and a curved portion, and the ridge is formed at a transitional point from the straight portion to the curved portion.

[4] The condensing apparatus according to claim 1, wherein the vapor passage includes a straight portion, and the ridge is formed on the straight portion.

[5] The condensing apparatus according to claim 1, wherein the air duct includes a condensed water discharge port for discharging the condensed water and a split-type vapor exhaust port for exhausting de-moisturized vapor.

[6] The condensing apparatus according to claim 5, wherein the air duct further includes a portion between the condensed water discharge port and the vapor exhaust port, the portion being inclined at a predetermined angle to dispose the condensed water discharge port lower than the vapor exhaust port.

[7] The condensing apparatus according to claim 1, wherein the blower includes a condenser fan for blowing air at the air duct to exchange heat with the vapor circulating inside the air duct, and a dryer fan for providing suctioning force to suction vapor from inside the tub.

[8] The condensing apparatus according to claim 7, wherein the blower further includes a motor for driving the condenser fan and the dryer fan together.

[9] A condensing apparatus of a dish washer having an air duct for suctioning and condensing vapor from inside a dish washer tub, the condensing apparatus comprising:
a vapor passage formed in the air duct for circulating the vapor suctioned from inside the tub and generating condensed water; and a ridge formed on the vapor passage for stopping the condensed water.

[10] The condensing apparatus according to claim 9, wherein the vapor passage forms

a meander line.

[11] The condensing apparatus according to claim 9, wherein the vapor passage includes a straight portion and a curved portion, and the ridge is formed at a transitional point from the straight portion to the curved portion.

[12] The condensing apparatus according to claim 9, wherein the vapor passage includes a straight portion, and the ridge is formed on the straight portion of the vapor passage.

[13] The condensing apparatus according to claim 9, wherein the air duct includes a condensed water discharge port for discharging the condensed water and a split-type vapor exhaust port for exhausting de-moisturized vapor.

[14] The condensing apparatus according to claim 13, wherein the air duct further includes a portion between the condensed water discharge port and the vapor exhaust port, the portion being inclined at a predetermined angle to dispose the condensed water discharge port lower than the vapor exhaust port.

[15] The condensing apparatus according to claim 9, further comprising a condenser fan for blowing air at the air duct to exchange heat with the vapor circulating inside the air duct, and a dryer fan for providing suctioning force to suction vapor from inside the tub.

[16] A condensing apparatus of a dish washer for condensing vapor inside a dish washer tub, the condensing apparatus comprising:
a dryer fan for providing suctioning force to suction vapor from inside the tub;
an air duct forming a vapor passage for circulating the suctioned vapor and generating condensed water and a ridge formed on the vapor passage for stopping the condensed water; and
a condenser fan for blowing air at the air duct to exchange heat with the vapor circulating inside the vapor passage.

[17] The condensing apparatus according to claim 16, wherein the vapor passage forms a meander line.

[18] The condensing apparatus according to claim 16, wherein the vapor passage has a straight portion and a curved portion, and the ridge is formed on at least one of a transitional point from the straight portion to the curved portion or a straight portion.

[19] The condensing apparatus according to claim 16, wherein the air duct further includes a condensed water discharge port for discharging the condensed water and a split-type vapor exhaust port for exhausting de-moisturized vapor, a

portion of the air duct between the condensed water discharge port and the vapor exhaust port being inclined at a predetermined angle to dispose the condensed water discharge port lower than the vapor exhaust port.

[20] The condensing apparatus according to claim 16, wherein the condenser fan and the dryer fan are driven together by a single motor.